FIG. 1

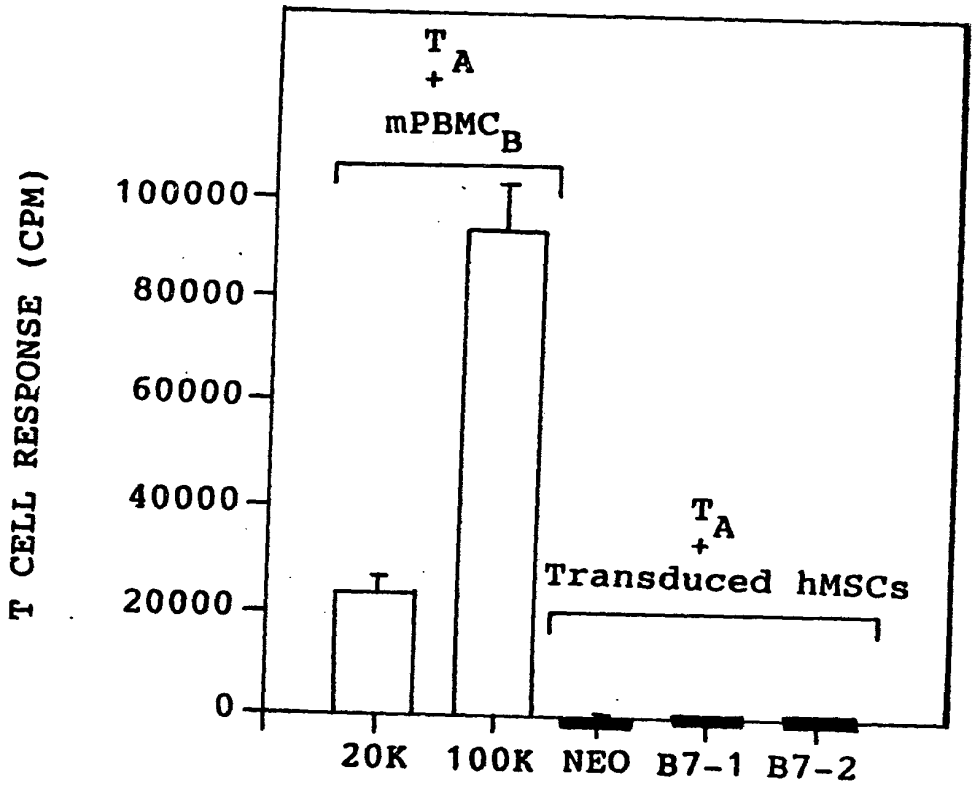

T CELL RESPONSE (CPM)
100000
80000
60000
40000
20000
0
T_A + mPBMC$_B$
T_A + Transduced hMSCs
20K
100K
NEO
B7-1
B7-2

FIG. 2

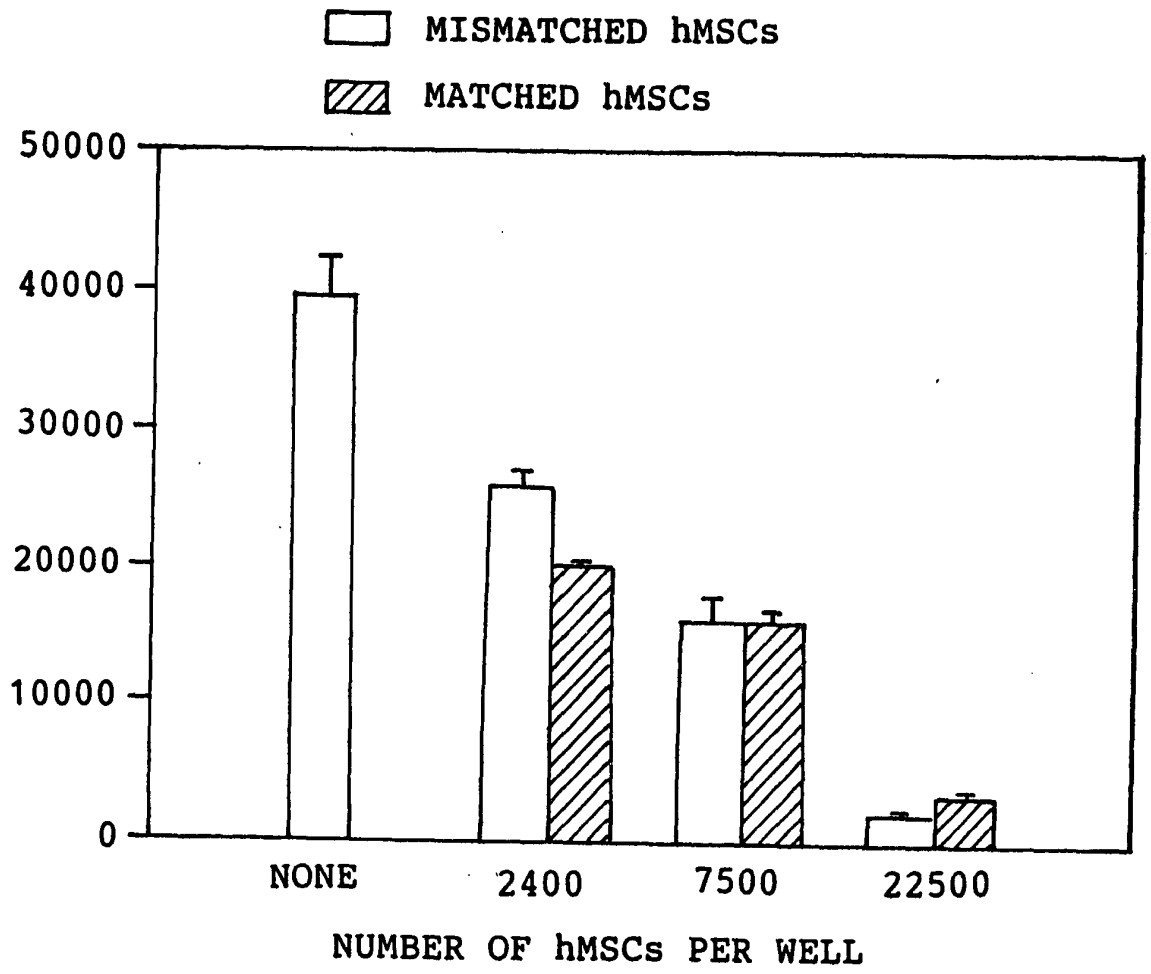

MISMATCHED hMSCs
MATCHED hMSCs
50000
40000
30000
20000
10000
0
Δ CPM
NONE
2400
7500
22500
NUMBER OF hMSCs PER WELL

FIG. 3

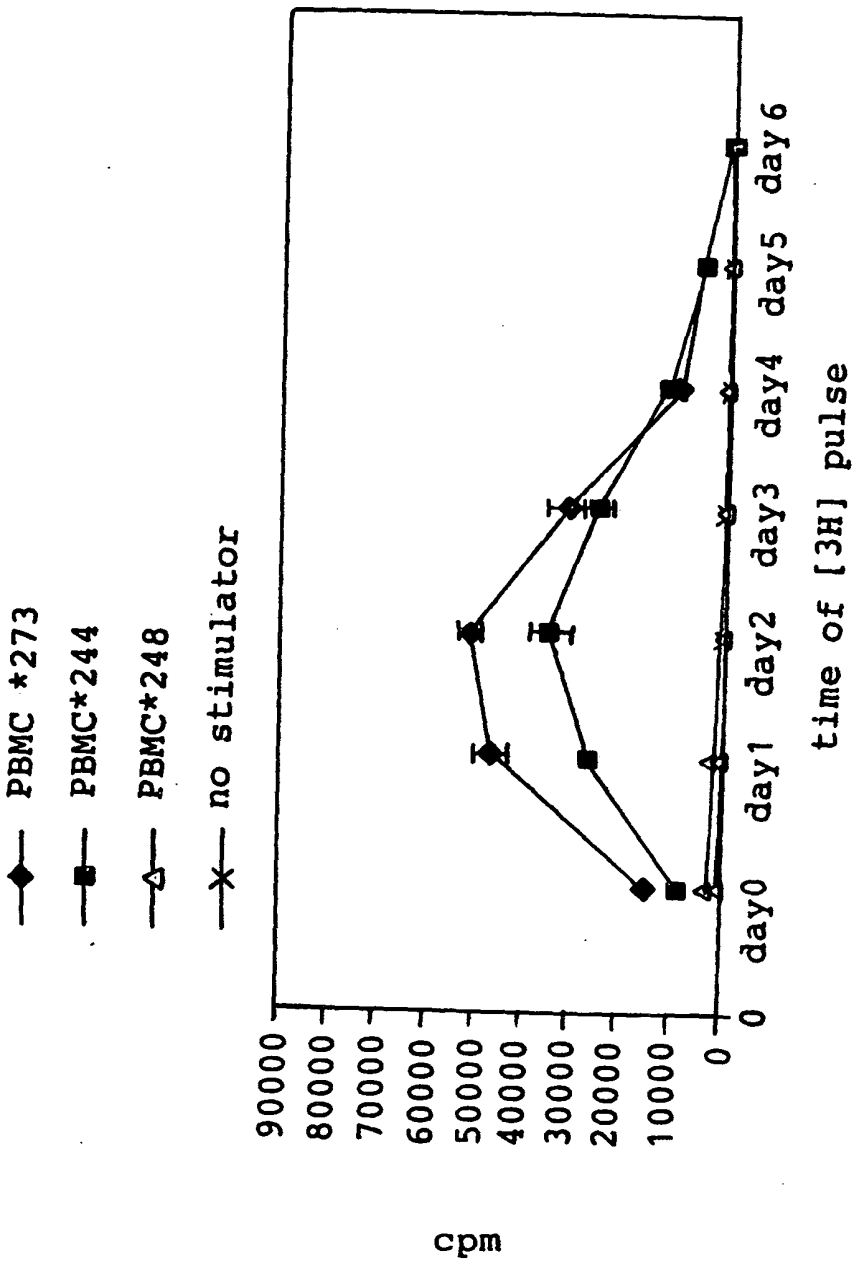

PBMC *273
PBMC*244
PBMC*248
no stimulator
90000
80000
70000
60000
50000
40000
30000
20000
10000
0
cpm
0
day0
day1
day2
day3
day4
day5
day6
time of [3H] pulse

FIG. 4

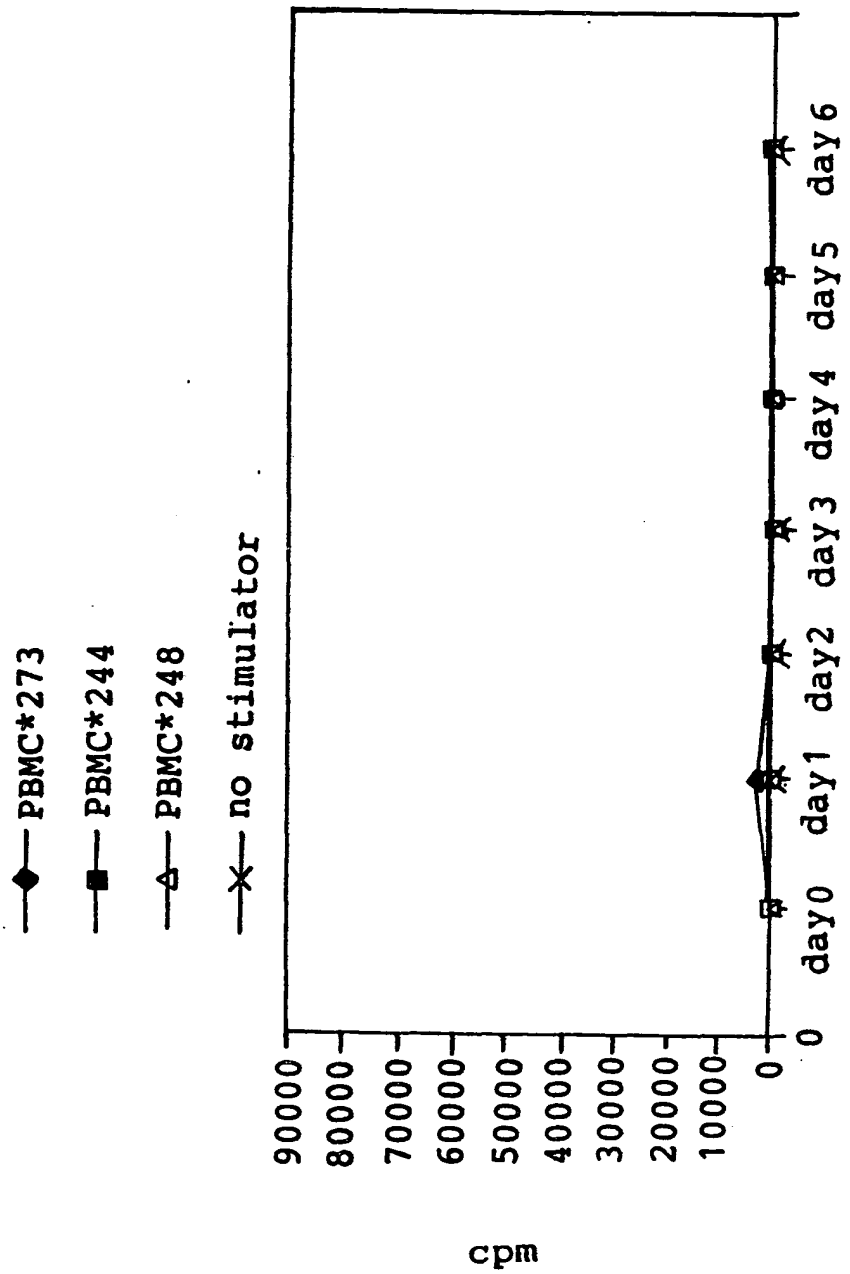

PBMC*273
PBMC*244
PBMC*248
no stimulator
90000
80000
70000
60000
50000
40000
30000
20000
10000
0
cpm
0
day0
day1
day2
day3
day4
day5
day6
time of [3H] pulse

FIG. 5A

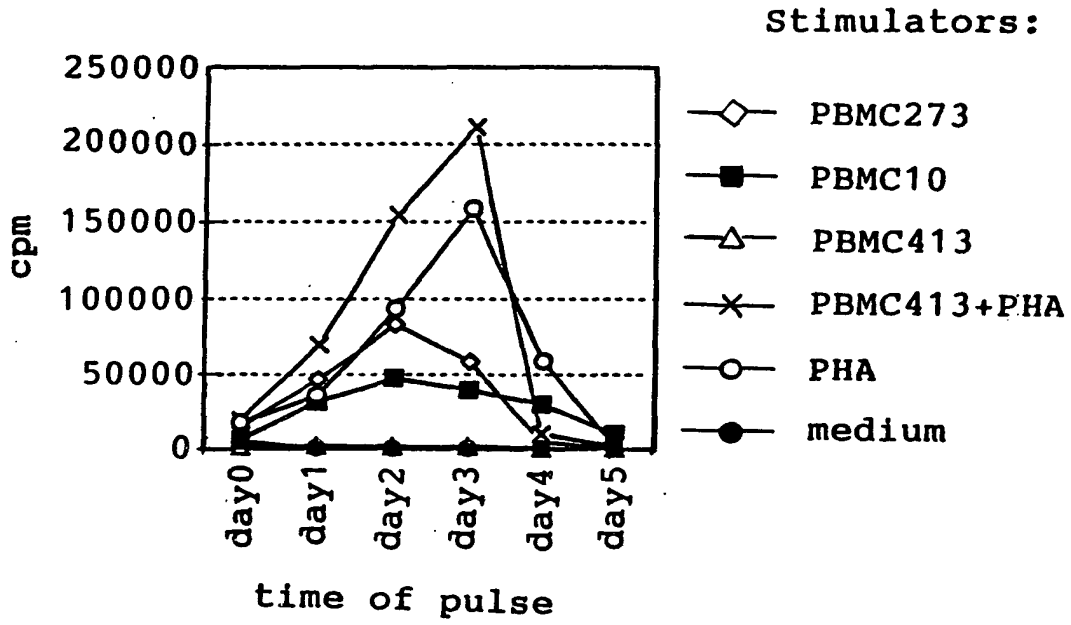

Stimulators:
250000
200000
150000
100000
50000
0
cpm
day0
day1
day2
day3
day4
day5
time of pulse
PBMC273
PBMC10
PBMC413
PBMC413+PHA
PHA
medium

FIG. 5B

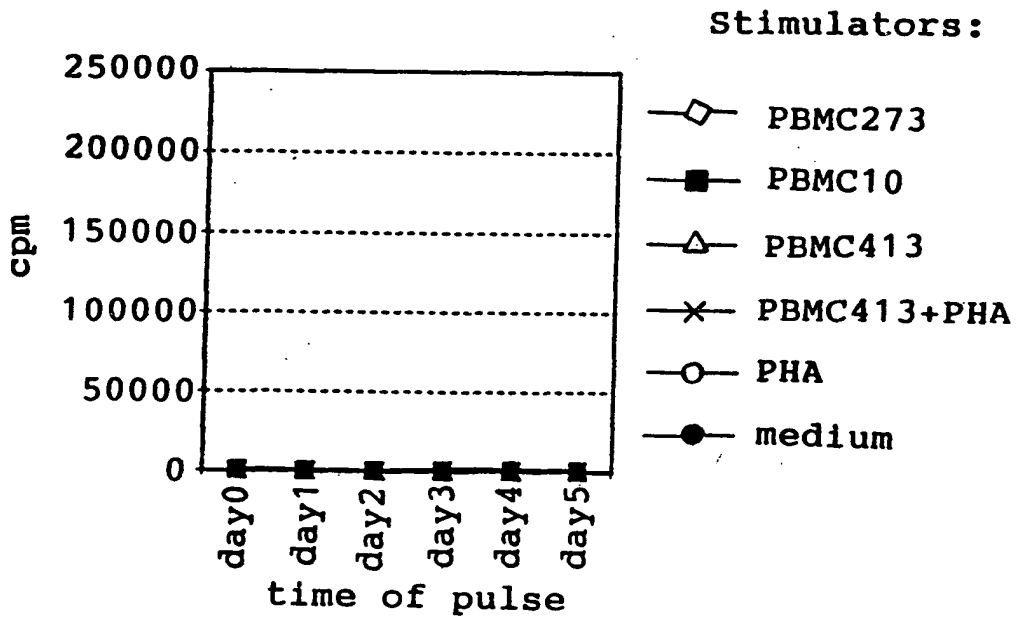

Stimulators:
250000
200000
150000
100000
50000
0
cpm
day0
day1
day2
day3
day4
day5
time of pulse
PBMC273
PBMC10
PBMC413
PBMC413+PHA
PHA
medium

FIG. 5C

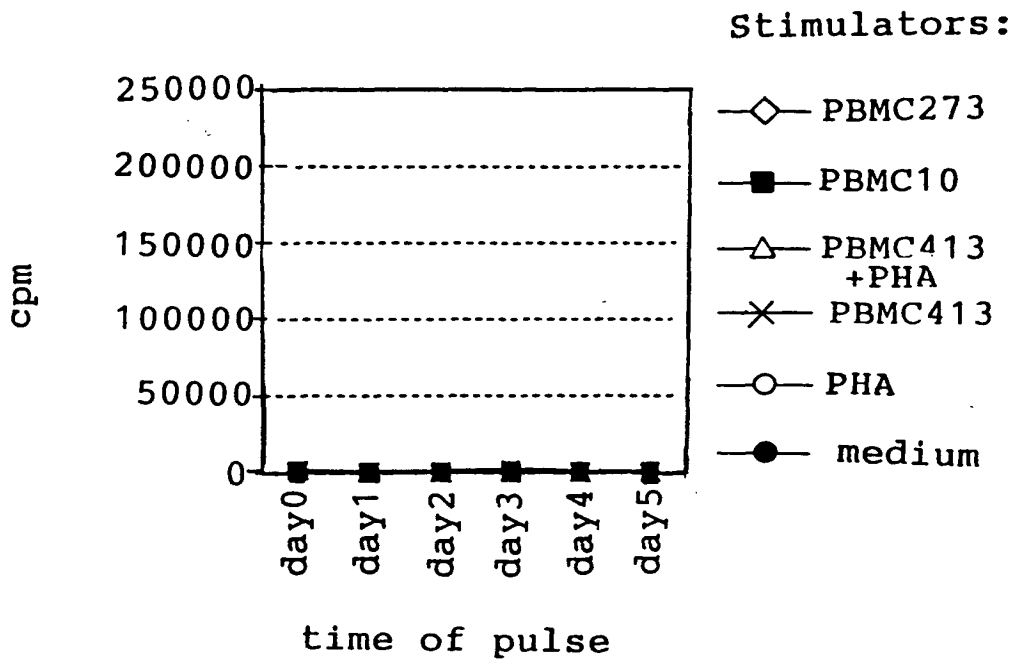

Stimulators:
250000
200000
150000
100000
50000
0
cpm
day0
day1
day2
day3
day4
day5
time of pulse
PBMC273
PBMC10
PBMC413 +PHA
PBMC413
PHA
medium

FIG. 5D

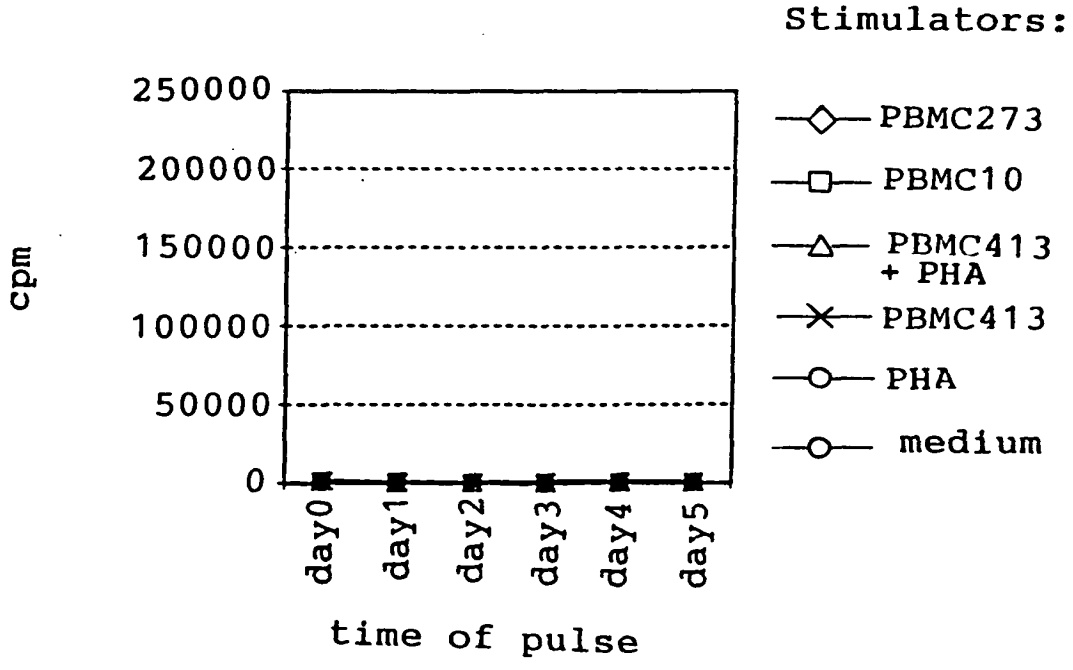

Stimulators:
250000
200000
150000
100000
50000
0
cpm
day0
day1
day2
day3
day4
day5
time of pulse
PBMC273
PBMC10
PBMC413 + PHA
PBMC413
PHA
medium

FIG. 6A

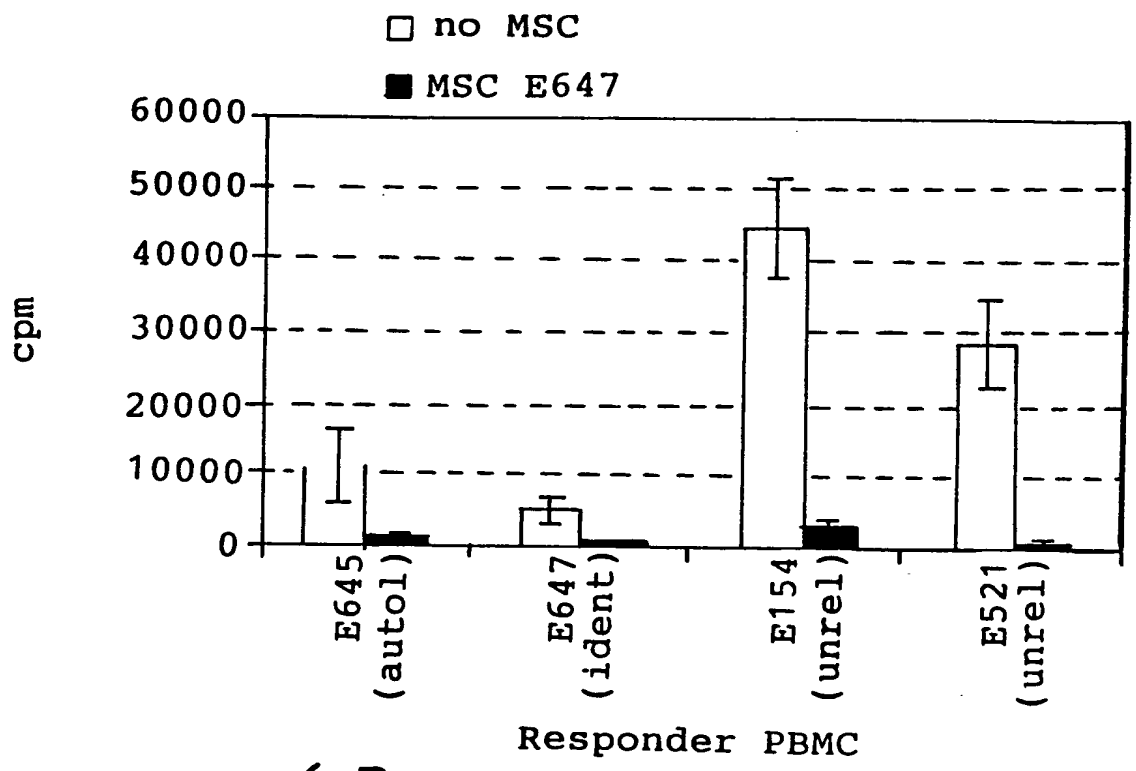

Canine MSC suppress primary MLR (Stimulator: E645 PBMC)
no MSC
MSC E647
cpm
60000
50000
40000
30000
20000
10000
0
E645 (autol)
E647 (ident)
E154 (unrel)
E521 (unrel)
Responder PBMC

FIG. 6B

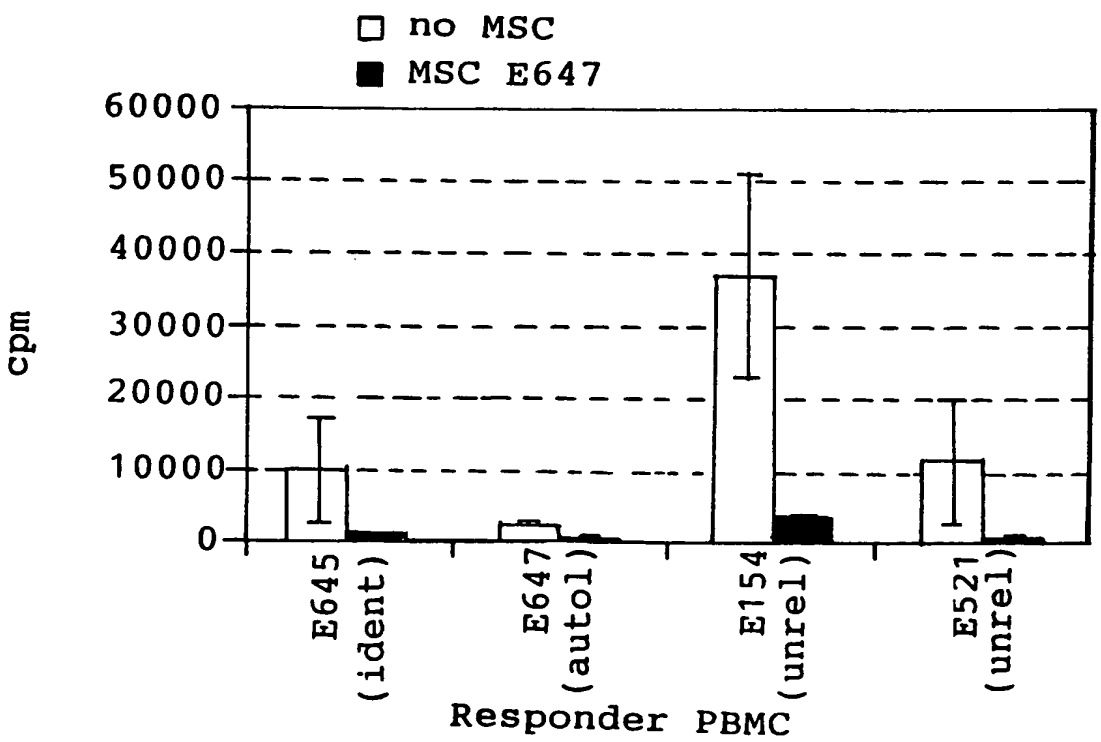

Canine MSC suppress primary MLR (Stimulator: E647 PBMC)
no MSC
MSC E647
cpm
60000
50000
40000
30000
20000
10000
0
E645 (ident)
E647 (autol)
E154 (unrel)
E521 (unrel)
Responder PBMC

FIG. 6C

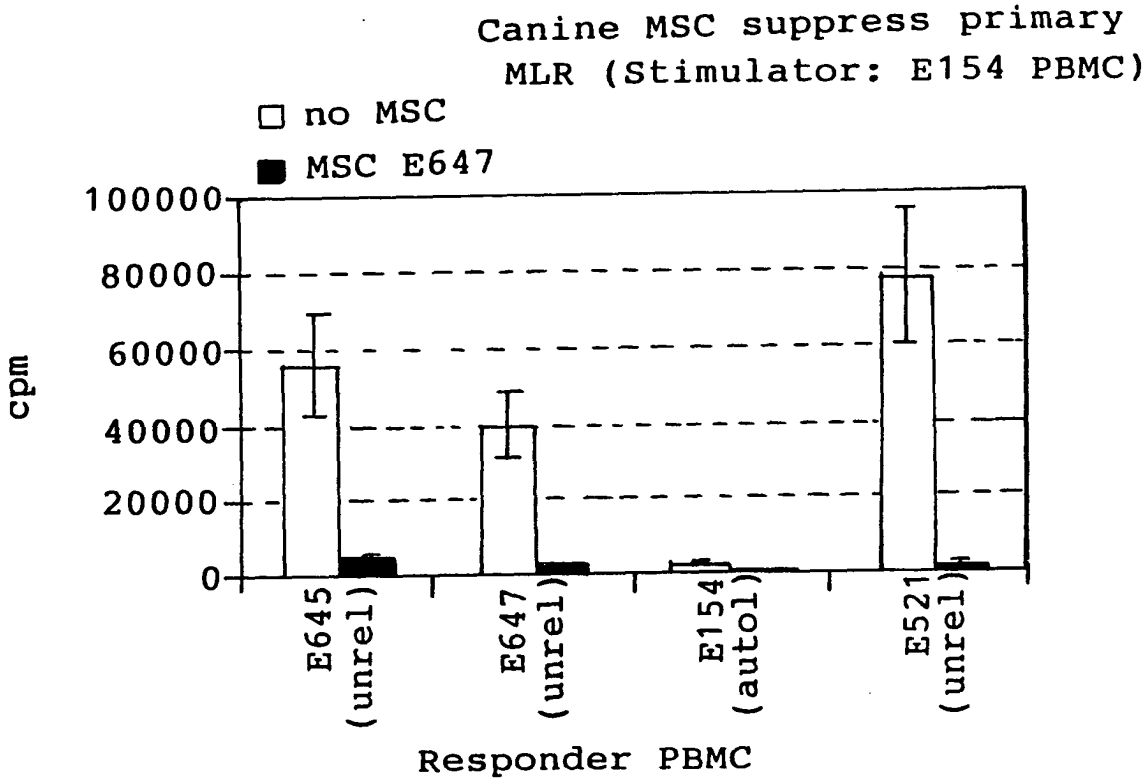

Canine MSC suppress primary MLR (Stimulator: E154 PBMC)
no MSC
MSC E647
100000
80000
60000
40000
20000
0
cpm
E645 (unrel)
E647 (unrel)
E154 (autol)
E521 (unrel)
Responder PBMC

FIG. 6D

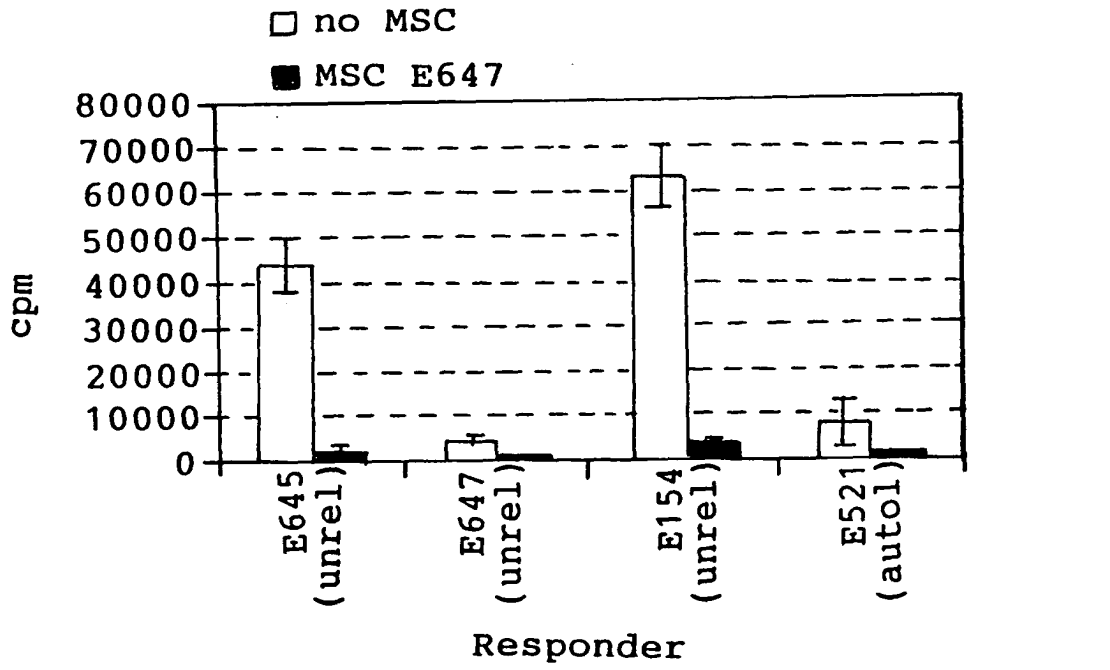

Canine MSC suppress primary MLR (Stimulator: E521 PBMC)
no MSC
MSC E647
80000
70000
60000
50000
40000
30000
20000
10000
0
cpm
E645 (unrel)
E647 (unrel)
E154 (unrel)
E521 (autol)
Responder

FIG. 7

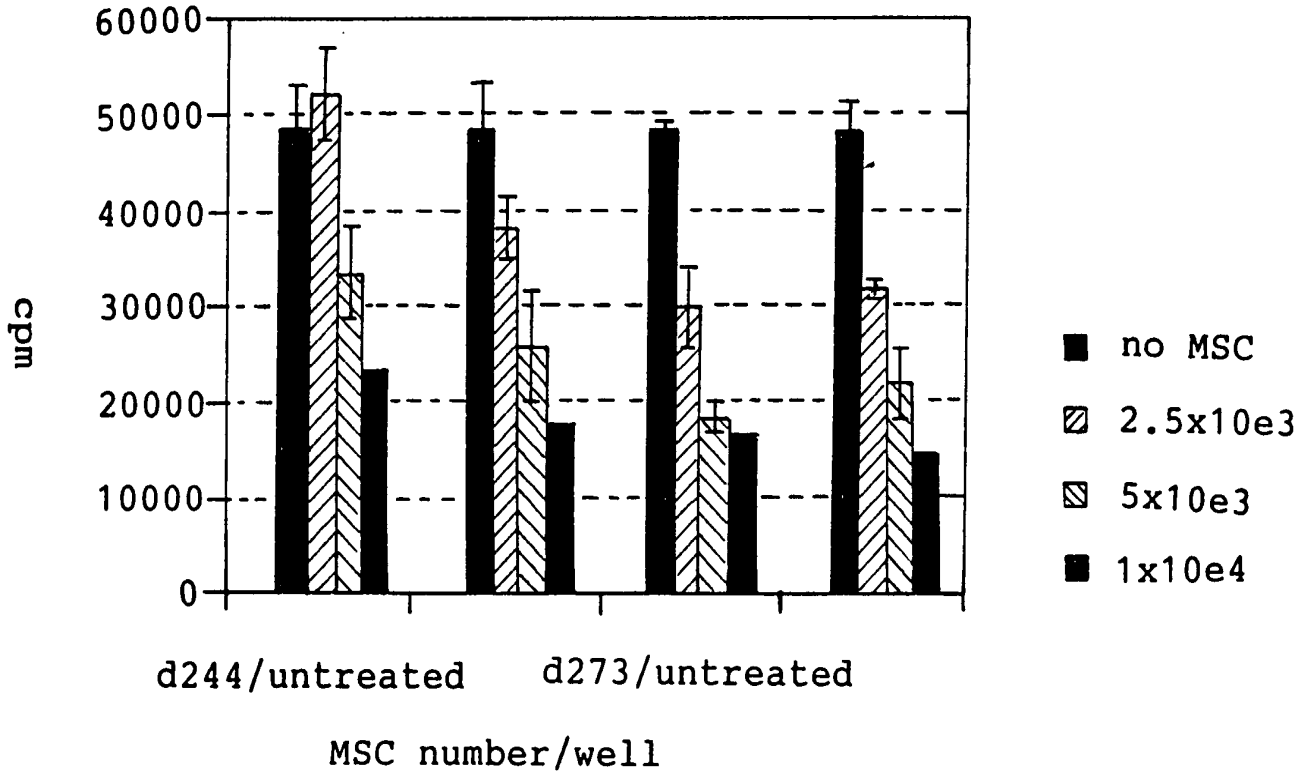
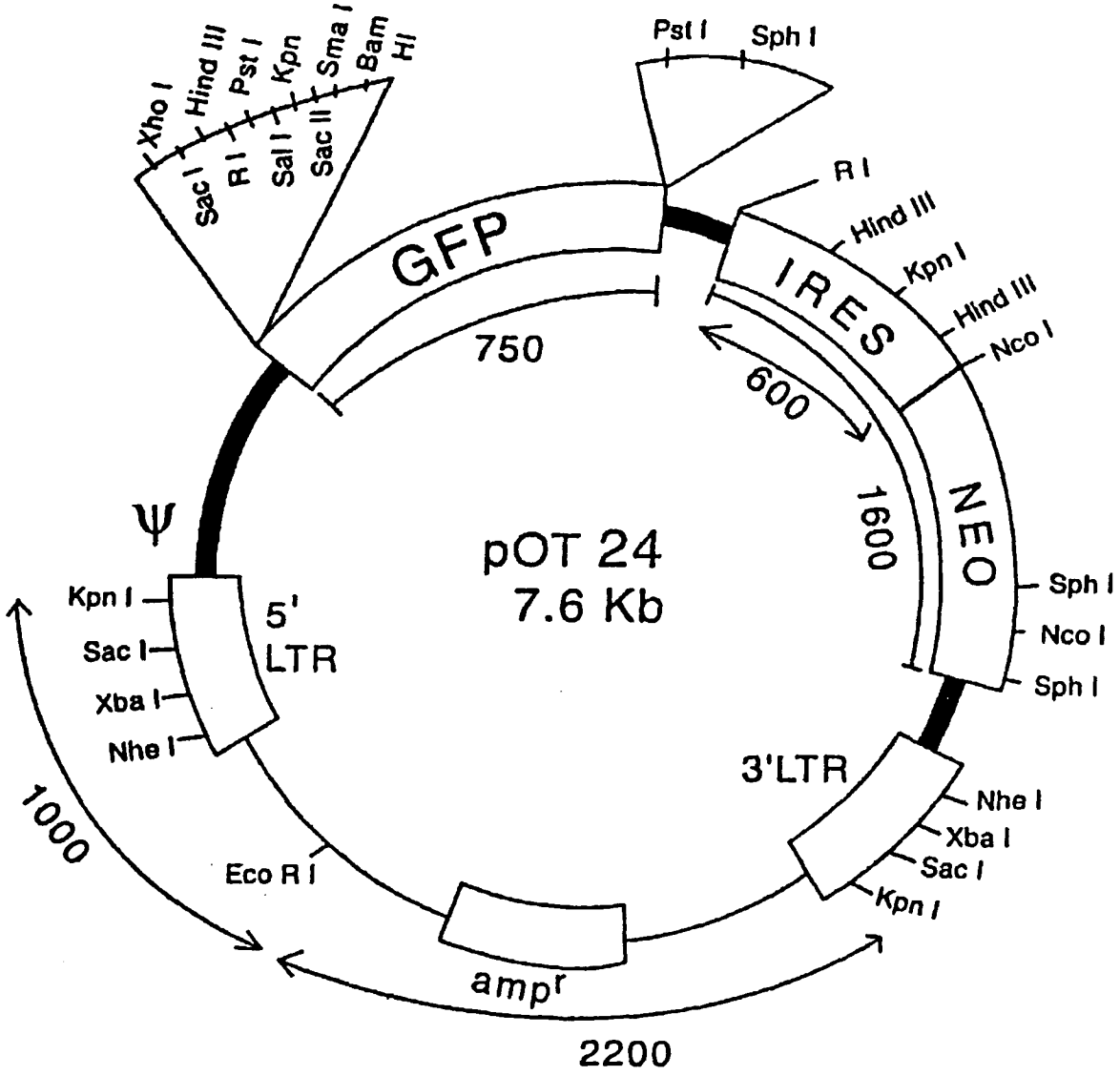

60000
50000
40000
30000
20000
10000
0
cpm
no MSC
2.5x10e3
5x10e3
1x10e4
d244/untreated
d273/untreated
MSC number/well

FIG. 8


Xho I
Hind III
Pst I
Kpn
Sma I
Bam HI
Sac I
R I
Sal I
Sac II
Pst I
Sph I
GFP
750
R I
Hind III
Kpn I
Hind III
Nco I
IRES
600
1600
NEO
Sph I
Nco I
Sph I
Ψ
pOT 24
7.6 Kb
Kpn I
Sac I
Xba I
Nhe I
5'
LTR
3'LTR
Nhe I
Xba I
Sac I
Kpn I
1000
Eco R I
ampr
2200

Suppressive Effect of Supernatants Generated from hMSCs or hMSC-Suppressed MLR Cultures: Effect on Primary MLR

FIG. 9

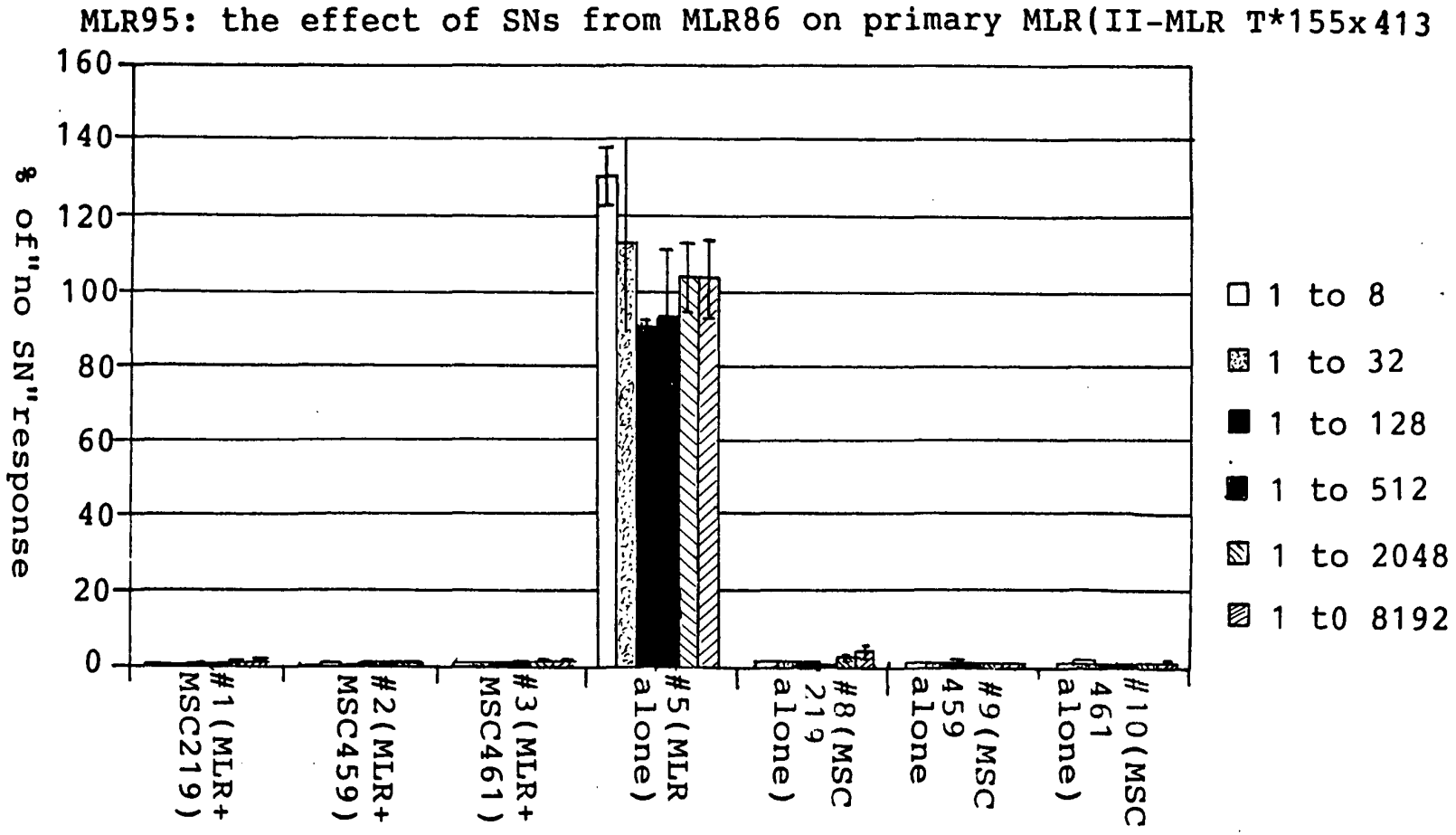
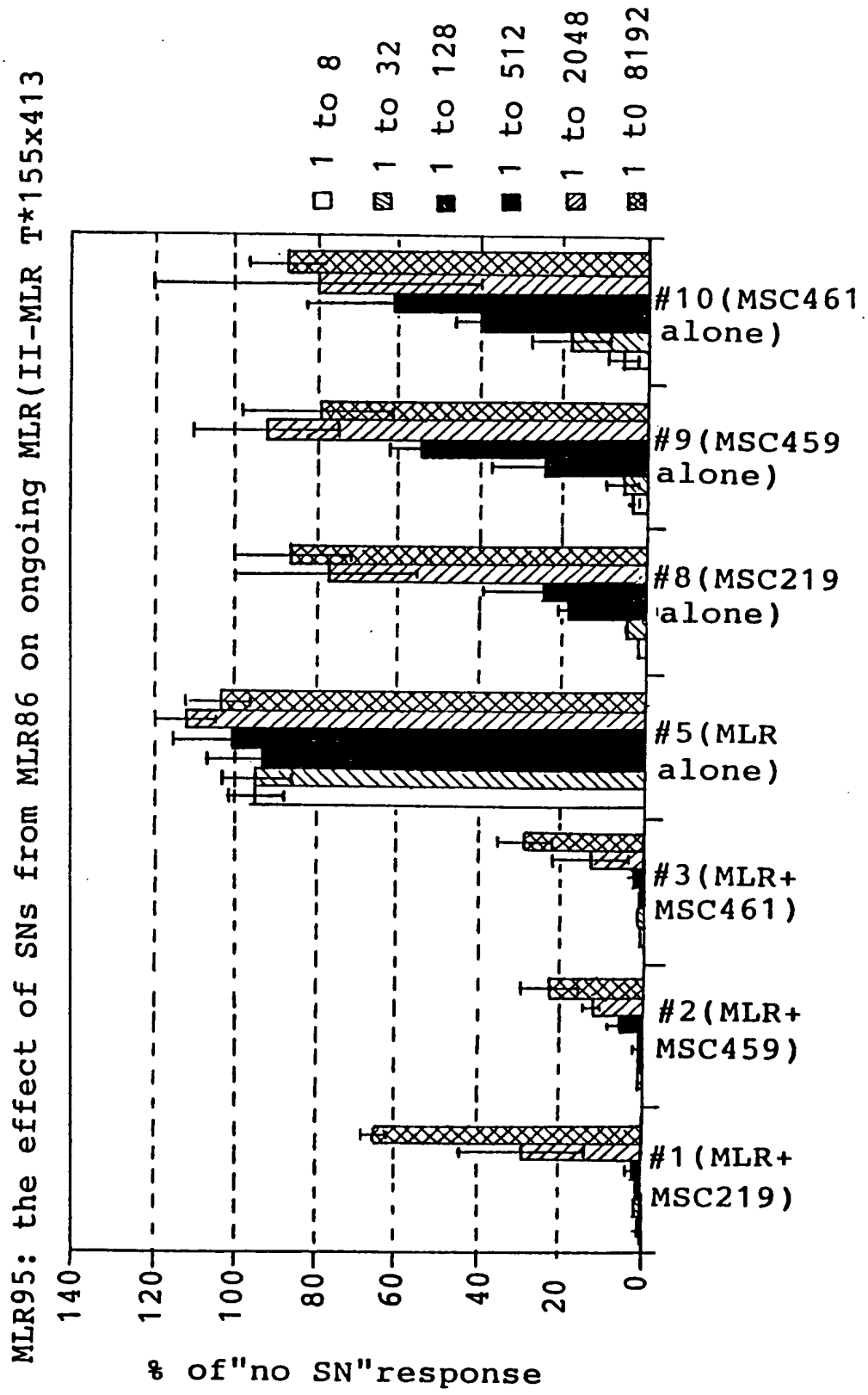


FIG. 10

Suppressive Effect of Supernatants Generated from hMSCs or hMSC-Suppressed MLR Cultures: Effect on Ongoing MLR



Suppression of Different Human MLRs
by MSCs from Baboon #86243

FIG. 11

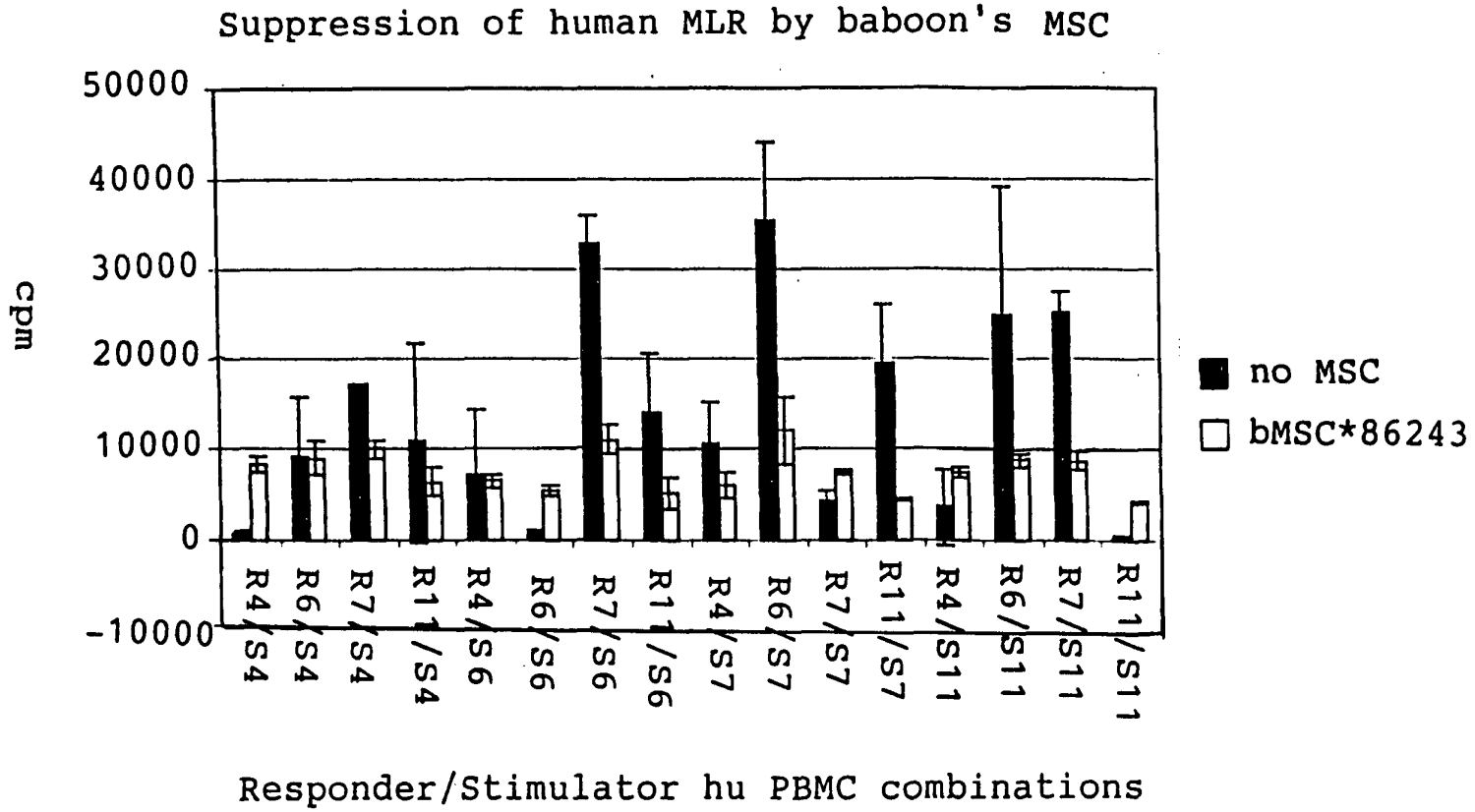


FIG. 12

Suppression of Xenogeneic MLR (Human X Baboon)
by Human and Baboon MSCs

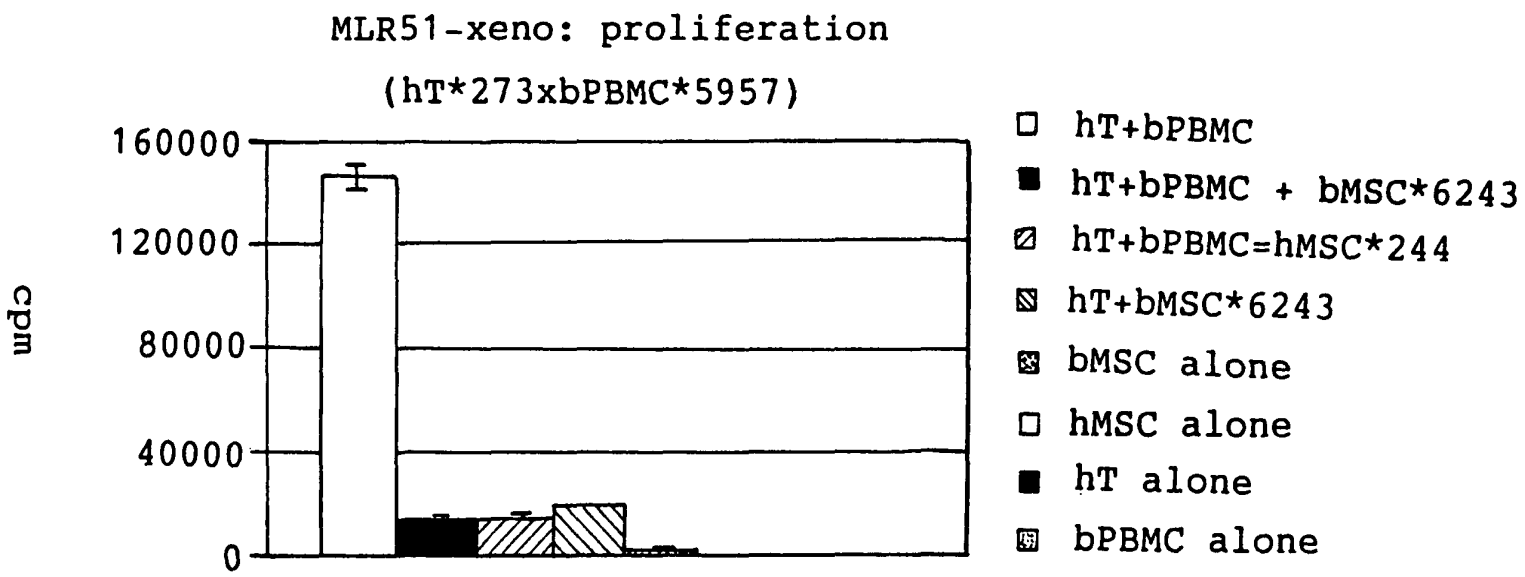


FIG. 13

Suppression of Xenogeneic MLR (Human X Baboon)
by Human and Baboon MSCs